



TECHNICAL SERVICE BULLETIN

2.0L EcoBoost - Coolant In Cylinders, White Exhaust Smoke And/Or Illuminated MIL

19-2208

26 June 2019

This bulletin supersedes 19-2172. Reason for update: Replace Awareness/Interim Message

Model:

Ford
2015-2018 Edge
2017-2019 Escape
2017-2019 Fusion
Lincoln
2017-2019 MKC
2017-2019 MKZ

Summary

This article supersedes TSB 19-2172 to update the vehicles affected and Parts List.

Issue: Some 2015-2018 Edge and 2017-2019 Fusion/MKZ/Escape/MKC vehicles equipped with a 2.0L EcoBoost engine may exhibit a low coolant level, white exhaust smoke and/or a runs rough condition with or without an illuminated malfunction indicator lamp (MIL). Diagnostic trouble codes (DTCs) may include P0300, P0301-P0304, P0316, P0217, P1285 and/or P1299 stored in powertrain control module (PCM). This may be due to coolant intrusion into the cylinder. To correct the condition, follow the Service Procedure steps to replace the long block engine assembly.

Action: Follow the Service Procedure steps to correct the condition on vehicles that meet all of the following criteria:

- One of the following vehicles:
 - 2015-2018 Edge
 - 2017-2019 Fusion/MKZ built on or before 8-Apr-2019
 - 2017-2019 Escape built on or before 16-May-2019
 - 2017-2019 MKC built on or before 18-Apr-2019
- 2.0L EcoBoost engine
- Presence of coolant in the engine cylinders, white exhaust smoke and/or a runs rough condition with or without an illuminated MIL

NOTE: Part availability for this TSB is initially limited and Dealers may experience temporary backorders that will be filled as quickly as possible. Dealers are requested to order parts only when required to complete a customer vehicle repair.

Parts

Part Number	Description	Quantity
6006	Engine Long Block - Refer To The Parts Catalog For The VIN Specific Application	1
W715618-S437	Torque Converter Nuts (Package Contains 4 pieces)	1
EJ7Z-9448-B	Turbo Gasket (All Models)	1

BE8Z-6731-AC	Oil Filter Kit (All Models)	1
W716457-S439	Subframe Bolts (Edge/Fusion/MKZ)	1
7N5Z-00812-A	Subframe Bolts (Escape/MKC)	2
W713095-S403	Turbo Heat Shield Nuts (All Models)	1
W520103-S442	Tailpipe Fastener (Escape/MKC/Fusion/MKZ Only)	1
W714265-S442	Catalytic Converter Fastener (All Models)	1
CV6Z-9450-E	Tailpipe Gasket (All Models)	1
EJ7Z-6L612-A	Turbo To Catalytic Converter Gasket (All Models)	1
W713212-S300	Turbo Coolant Tube Washers (All Models)	1
FT4Z-6N652-D	Turbo Coolant Tube O-Ring (All Models)	1
F2GZ-6K679-A	Turbo Oil Supply Tube Washers (Edge)	1
W715323-S300	Turbo Oil Supply Tube Washers (Escape/MKC/Fusion/MKZ)	1
BB5Z-6C683-A	Turbocharger Oil Filter (All Models)	1
EJ7Z-6N652-A	Turbo Oil Return Tube Gasket (All Models)	1
FT4Z-6N652-E	Turbo Oil Return Tube O-ring (All Models)	1
W520214-S440	Engine Mount Nuts (Fusion/MKZ/Edge) (Package Contains 4 Pieces, Fusion/MKZ Require 3 Pieces, Edge Requires 2 Pieces)	1
W520204-S440	Engine Mount Nuts (Escape/MKC) (Package Contains 4 Pieces, Escape/MKC Requires 4 Pieces)	1
W717674-S439	Engine Mount Bolt (All Models)	1
W710807-S442	Engine Mount Nut (All Models)	1
W714878-S439	Steering Column Fastener (2015-2016 Fusion/MKZ Only)	1
W712961-S450B	Steering Column Fastener (Edge And 2017-2019 Fusion/MKZ Only)	1
W711137-S442	Steering Column Fastener (Escape/MKC)	1
5F9Z-4682-AA	PTU Bolt And Washer Assembly (AWD Only)	Escape/MKC/Fusion/MKZ: 6, Edge: 3
F2GZ-4682-A	RDU Bolt And Washer Assembly (Edge AWD Only)	3

W712154-S439	Center Bearing Fastener (Fusion/MKZ/Edge AWD Only)	1
W711806-S442	Center Bearing Fastener, Bracket To Body (Escape/MKC Only)	1
W500020-S442	Center Bearing Fastener, Bracket To Center Bearing (Escape/MKC Only)	1
W712503-S440	Stabilizer Bar Fastener (Fusion/MKZ/Edge)	2
W715135-S440	Stabilizer Bar Fastener (Escape/MKC)	1
W715623-S439	Front Brake Caliper Bolts (Fusion/MKZ/Edge)	1
W715295-S439	Shock Mount Bolt (Edge Only)	1
W715490-S442	Shock Mount Bolt (Escape/MKC Only)	1
W520216-S440	Shock Mount Nut (Edge Only)	1
DL3Z-19B596-B	A/C Compressor Gasket And O-Ring (Escape/MKC/Edge, 2016-2019 Fusion/MKZ Built On Or After 5-Apr-2016)	1
9W7Z-19B596-B	A/C Compressor Gasket And O-Ring (2015-2016 Fusion/MKZ Built On Or Before 4-Apr-2016)	1
DS7Z-19B596-A	A/C Compressor Gasket And O-Ring (All Models)	1
CCPZ-3B477-B	Wheel Bearing Hub Nut (Fusion/MKZ/Edge)	2
CCPZ-3B477-G	Wheel Bearing Hub Nut (Escape/MKC FWD)	2
CCPZ-3B477-C	Wheel Bearing Hub Nut (Escape/MKC AWD)	2
W500545-S439	Ball Joint Pinch Bolt (Fusion/MKZ/Edge)	Fusion/MKZ: 1, Edge: 2
W520214-S442	Lower Ball Joint Nut (Fusion/MKZ)	2
W520214-S440	Ball Joint Pinch Nut (Edge)	1
4S4Z-3N324-AA	Halfshaft Retaining Strap (Fusion/MKZ/Edge)	1
W520102-S442	Halfshaft Retaining Strap Nuts (All Models)	1
W500635-S439	Upper PTU Bolts (Escape Built On Or Before 20-Sep-2016)	5
W718250-S439	Upper PTU Bolts (AWD Only)	1
BB5Z-1S177-C	Halfshaft Seal (FWD)	1

9L8Z-1177-C	Halfshaft Seal (AWD)	1
CV6Z-7086-A	PTU Compression Seal (AWD Only)	1
BB5Z-4B422-C	Halfshaft Retaining Circlip (All Models)	1
YS4Z-3N324-AA	Halfshaft Retaining Strap (Escape/MKC)	1
DG9Z-7G273-B	Halfshaft Washer (All Models)	1
W718507-S439	Transmission Support Insulator Bolts (Edge Only)	1
W520205-S440	Transmission Support Insulator Nuts (Edge Only)	1
W716200-S437	Transmission Fluid Cooler Tube Bolts (Edge Only)	1
W712146-S437	Transmission Fluid Cooler Tube Bolts (Fusion/MKZ/Edge Only)	1
W520215-S440	Tie Rod End Nut (Fusion/MKZ/Edge)	1
W716075-S442	Ball Joint Pinch Bolt (Escape/MKC)	1
W520415-S442	Ball Joint Pinch Nut (Escape/MKC)	1
CN1Z-7H424-B	Intermediate Shaft Seal (AWD Only)	1
XO-5W30-Q1SP	Motorcraft® SAE 5W-30 Premium Synthetic Blend Motor Oil (All Markets Except Canada)	6
CXO-5W30-LSP6	Motorcraft® SAE 5W-30 Super Premium Motor Oil (Canada Only)	6
VC-3-B	Motorcraft® Orange Concentrated Antifreeze/Coolant (All Markets Except Canada)	1.1
CVC-3-B2	Motorcraft® Orange Concentrated Antifreeze/Coolant (Canada Only)	1.1
TA-26	Motorcraft® Threadlock 262	1
Replace As Necessary		
CM5Z-12029-K	Ignition Coil	4
AA5Z-9C587-A	High Pressure Pump Roller Tappet	1
EJ7Z-9276-B	High Pressure Pump Drive Gasket	1
BB5Z-2A572-B	Brake Vacuum Pump Gasket	1
CJ5Z-9439-A	Intake Manifold Gasket	1
W704474-S437	Turbo Stud	1
W712458-S900	Turbo To Exhaust Stud	1

F2GZ-63600A58-A	Intermediate Shaft Bushing (AWD Only)	1
W714753-S442	Front Brake Caliper Bolts (Escape/MKC)	1
W520203-S442	Tie Rod End Nut (Escape/MKC)	1

Warranty Status: Eligible Under Provisions Of New Vehicle Limited Warranty Coverage And Emissions Warranty Coverage. Warranty/ESP coverage limits/policies are not altered by a TSB. Warranty/ESP coverage limits are determined by the identified causal part and verified using the OASIS part coverage tool. For repairs covered by the New Vehicle Limited Warranty, completion of the procedure outlined in this TSB does not require obtaining Prior Approval or completion of a Cost Cap.

Labor Times

Description	Operation No.	Time
2017-2019 MKC AWD 2.0L EcoBoost: Diagnose And Replace The Engine Long Block (Do Not Use With Any Labor Operations Outside Of This Article)	DR192208A	14.7 Hrs.
2017-2019 MKC FWD 2.0L EcoBoost: Diagnose And Replace The Engine Long Block (Do Not Use With Any Labor Operations Outside Of This Article)	DR192208B	13.6 Hrs.
2017-2019 Escape 4X4 2.0L EcoBoost: Diagnose And Replace The Engine Long Block (Do Not Use With Any Labor Operations Outside Of This Article)	DR192208C	15.3 Hrs.
2017-2019 Escape 4X2 2.0L EcoBoost: Diagnose And Replace The Engine Long Block (Do Not Use With Any Labor Operations Outside Of This Article)	DR192208D	13.6 Hrs.
2015-2018 Edge AWD 2.0L EcoBoost: Diagnose And Replace The Engine Long Block (Do Not Use With Any Labor Operations Outside Of This Article)	DR192208E	15.0 Hrs.
2015-2018 Edge FWD 2.0L EcoBoost: Diagnose And Replace The Engine Long Block (Do Not Use With Any Labor Operations Outside Of This Article)	DR192208F	13.3 Hrs.
2017-2019 Fusion/MKZ AWD 2.0L EcoBoost: Diagnose And Replace The Engine Long Block (Do Not Use With Any Labor Operations Outside Of This Article)	DR192208G	14.9 Hrs.
2017-2019 Fusion/MKZ FWD 2.0L EcoBoost: Diagnose And Replace The Engine Long Block (Do Not Use With Any Labor Operations Outside Of This Article)	DR192208H	12.9 Hrs.
Vehicles Without Lane Departure: Additional Time To Check And Correct Front Toe (Can be Claimed With Operation A-H Only)	DR192208J	0.6 Hrs.
Vehicles With Lane Departure: Additional Time To Check And Correct Front Toe (Can be Claimed With Operation A-H Only)	DR192208K	0.8 Hrs.

Repair/Claim Coding

Causal Part:	6009
Condition Code:	D8

Service Procedure

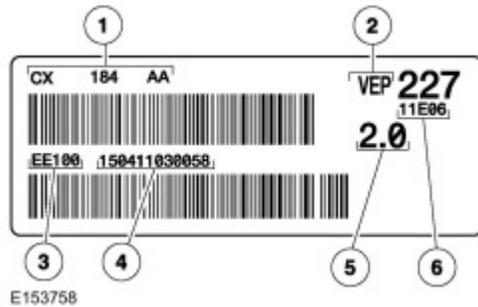
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1. For Edge/Escape vehicles, proceed to Step 3. For Fusion/MKZ/MKC vehicles, inspect the engine code information label located on the end of the cam cover. (Figures 1-2) Refer to Figure 1 Callout 1 for the engine part number location. Verify that the engine base part number matches the following requirements:

- (1). Fusion/MKZ - engine base part number is 910
- (2). MKC - engine base part number is 206

Figure 1



Item	Description
1	Engine part number

Figure 2



2. Does the engine base part number match the requirements listed in Step 1?

- (1). Yes - proceed to Step 3.
- (2). No - this article does not apply. Refer to the Powertrain Control/Emission Diagnosis (PC/ED) Manual for normal diagnostics.

3. With the engine at normal operating temperature, pressurize the cooling system to 138 kPa (20 psi) and hold for 5 hours. Refer to the coolant pressure test in Workshop Manual (WSM), Section 303-03A and check for cooling system combustion gases.
4. Did coolant system pressure drop more than 27.57 kPa (4 psi) after 5 hours?
 - (1). Yes - proceed to Step 5.
 - (2). No - this article does not apply. Refer to the PC/ED Manual for normal diagnostics.
5. Remove the spark plugs and, using a borescope or equivalent, inspect and determine if coolant has entered the cylinders.
6. Is coolant present in any cylinder?
 - (1). Yes - remove the engine and replace the long block. Refer to WSM, Section 303-01A.
 - (2). No - this article does not apply. Refer to WSM, Section 303-01 for normal diagnostics.

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NOTE: The information in Technical Service Bulletins is intended for use by trained, professional technicians with the knowledge, tools, and equipment to do the job properly and safely. It informs these technicians of conditions that may occur on some vehicles, or provides information that could assist in proper vehicle service. The procedures should not be performed by "do-it-yourselfers". Do not assume that a condition described affects your car or truck. Contact a Ford or Lincoln dealership to determine whether the Bulletin applies to your vehicle. Warranty Policy and Extended Service Plan documentation determine Warranty and/or Extended Service Plan coverage unless stated otherwise in the TSB article. The information in this Technical Service Bulletin (TSB) was current at the time of printing. Ford Motor Company reserves the right to supersede this information with updates. The most recent information is available through Ford Motor Company's on-line technical resources.